

(b) a light source contained within said housing, said light source having a light output;

(c) a power supply coupled to said light source;

(d) a first filter support member adjustably and movably mounted on said housing, said first filter support member comprising

(i) a plurality of first filter receiving supports, and

(ii) a plurality of first light bandpass filters, each of said first light bandpass filters with an associated bandpass range, each of said first light bandpass filters positioned in one of said first filter receiving supports, said first filter support member being adjustable to position any one of said first light filters to receive said light output and to filter said light output to produce a filtered light output and transmit said filtered light output;

and

(e) a second filter support member adjustably and movably mounted on said housing, said second filter support member comprising

(i) a plurality of second filter receiving supports, and

(ii) a plurality of second light bandpass filters, each of said first light bandpass filters with an associated bandpass range, each of said first light bandpass filters positioned in one of said second filter receiving supports, said second filter support member being adjustable to position any one of said second light filters to receive said filtered light output and to filter said filtered light output to produce a twice filtered light output and transmit said twice filtered light output, said first bandpass light filters having wavelength bandpass characteristics which cooperate with wavelength bandpass characteristics of said second bandpass light filters to form additional bandpass ranges when a filter on said first filter support member is used with a filter on said second filter support member.

2. (original)A light source as in claim 1 wherein said light source further comprises a handle secured to said housing, said handle being positioned and configured to be held by one hand and said the first and second filter support members being positioned to be adjusted by the thumb of said one hand.

3. (original) A light source as in claim 1 further comprising a fan, and wherein said housing has at least one opening for air intake by said fan, and at least one opening for air exhaust by said fan.

4. (original) A light source as in claim 1 further comprising focusing optics, said focusing optics dimensioned and configured to allow the user to focus light from said light source.

5. (original) A light source as in claim 4 wherein said focusing optics comprises a lens mounted within a tubular member, said tubular member slidably mounted on a second tubular member, said second tubular member being integral with said housing, said focusing optics being maintained in focus by a friction fitting.

6. (original) A light source as in claim 4 further comprising a reflective member, positioned to be coupled to said light source to direct said light source output toward said focusing optics.

7. (original) A light source as in claim 1 wherein said housing is a shock resistant housing and further comprising a handle configured and dimensioned to be held by less than the user's full hand.

8. (original) A light source as in claim 1 wherein said power supply is an external battery pack.

9. (original) A light source as in claim 1 wherein said power supply is an external transformer and connection to a standard household power supply.

10. (original) A light source as in claim 1 wherein said light source is a 100 watt bulb.

11. (original) A light source as in claim 1 wherein at least one of said filter support members comprises a rotatably mounted light filtering wheel which defines a hole which does not contain a filter to allow light to be passed through said hole without being filtered.

12. (original) A light source as in claim 3 further comprising a power control switch, said power control switch turning on said fan and said light source simultaneously.

13. (original) A light source as in claim 3, further comprising a power control switch, said power control switch turning on said fan and said light source independently.

14. (original) A light source as in claim 3 further comprising a power control switch, said power control switch having settings which turn the light and fan on simultaneously, turn the fan while keeping the light off, and keep the light and fan off.

15. (currently amended) A ruggedized forensic light source comprising:

(a) a housing, said housing comprising a shock resistant support, said housing having at least one opening for air intake and at least one opening for air exhaust, said shock resistant housing further comprising a handle configured and dimensioned to be held by less than a user's full hand;

(b) a light source mounted within said housing on said shock resistant support, said light source having an output;

(c) ~~a fan;~~

(d) ~~an external power supply;~~

(e) ~~a power control switch coupled to said light source, said fan and said power supply to supply power from said power supply to said light source and/or said fan when activated by the user;~~

(f) ~~at least one filter wheel mounted in front of said light source output, said filter~~

wheel comprising a plurality of light filters, and a section devoid of a light filter to allow light to be passed through said filter wheel without being filtered, said filter wheel being mounted for rotation and positioned, dimensioned and configured to be adjusted by the user's thumb while the user grasps said handle with his remaining fingers;

(gd) focusing optics positioned to focus light from said light source; and

(he) a reflective member, functionally coupled to said light source to direct at least a portion of said light source output toward said focusing optics.

16. (currently amended) A light source as in claim 15 wherein said focusing optics comprises a lens, mounted within a tubular member, said tubular member slidably mounted on a second tubular member, said second tubular member being secured to ~~two~~ said shock resistant housing, said focusing optics being kept in the position, to which it has been slidably moved, by a friction fitting.

17. (currently amended) A light source as in claim 15, further comprising a fan, an external power supply; and a power control switch coupled to said light source, said fan and said power supply to supply power from said power supply to said light source and/or said fan when activated by the user, wherein said power supply is an external battery pack.

18. (currently amended) A light source as in claim 15, further comprising a fan, an external power supply; and a power control switch coupled to said light source, said fan and said power supply to supply power from said power supply to said light source and/or said fan when activated by the user, wherein said power supply is an external transformer and a connection device for coupling to a standard household power source.

19. (currently amended) A light source as in claim 15, further comprising a fan, an external power supply; and a power control switch coupled to said light source, said fan and said power supply to supply power from said power supply to said light source and/or said fan when activated by the user, wherein said power control switch turns on said fan and said light source simultaneously.

20. (currently amended) A light source as in claim 15, further comprising a fan, an external power supply; and a power control switch coupled to said light source, said fan and said power supply to supply power from said power supply to said light source and/or said fan when activated by the user, wherein said power control switch turns on said fan and said light independently.

21. (currently amended) A light source as in claim 15, further comprising a fan, an external power supply; and a power control switch coupled to said light source, said fan and said power supply to supply power from said power supply to said light source and/or said fan when activated by the user, wherein said power control switch has settings for turning the light and fan on, for turning the fan on and keeping the light off, and keeping the light and fan off.

22. (withdrawn and canceled)

23. (withdrawn and canceled)

24. (withdrawn and canceled)

25. (original) A light source as in claim 1 wherein said first and second filter support members are light wheels and said filters are bandpass filters, said filters being arranged such that their wavelengths, when arranged in a sequential order, are

alternately placed on said first wheel and then said second wheel.

26. (original) A light source as in claim 25 wherein the selection of one filter on said first wheel and the selection of a second filter on said second wheel results in a bandpass narrower than the bandpass of said one filter or said second filter, the combined characteristic of said one filter and said second filter being formed by the juxtaposition of the characteristics of said one filter and said second filter and a bandpass wavelength range between said one and said second filters, and a narrower bandwidth than either said one or said second filters.

27. (currently amended) A light source as in claim 25 24, wherein said two filter wheels comprise, a first wheel and a second wheel, each of said filter wheels comprising a plurality of bandpass filters, said filters being arranged such that their wavelengths, when arranged in a sequential order, are alternately placed between said first wheel and said second wheel, said filters having bandwidths which allow them to be combined with filters on the other filter wheel.

28. (original) A light source as in claim 27, further comprising a third filter wheel holding a plurality of additional filters.

29. (original) A light source as in claim 28, wherein said additional filters are band reject filters.

30. (currently amended) A ruggedized forensic light source comprising:

- (a) a shock resistant housing;
- (b) a light source contained within said housing, said light source having a light output;
- (c) ~~an external power supply located outside said housing~~ coupled to said light source;
- (d) a power control switch coupled to said light source and said power supply, said power control switch configured and dimensioned to supply power from said power

supply to said light source when activated by the user; and

(e) at least one filter wheel comprising a plurality of filters mounted in front of said light source output to filter said light output, said filter wheel comprising a plurality of light frequency-adjusting wavelength responsive filters, said filter wheel being mounted for rotation and positioned, dimensioned and configured to be adjusted by a user's thumb while the user grasps said handle with his remaining fingers.

31. (currently amended) A forensic light source comprising:

(a) a housing;

(b) a light source contained within said housing, said light source having a light output;

(c) an external power supply located outside said housing coupled to said light source;

(d) a power control switch coupled to said light source and said power supply, said power control switch configured and dimensioned to supply power from said power supply to said light source when activated by the user; and

(e) at least one filter wheel comprising a plurality of filters mounted in front of said light source output to filter said light output, said filter wheel comprising a plurality of wavelength bandpass filters, said filter wheel being mounted for rotation and positioned, dimensioned and configured to be adjusted by a user's thumb while the user grasps said handle with his remaining fingers.

32. (currently amended) A forensic light source comprising:

(a) a housing;

(b) a light source contained within said housing, said light source having a light output;

(c) a power supply coupled to said light source;

(d) a first filter support member adjustably and movably mounted on said housing, said first filter support member comprising (i) first, second, and a third filter receiving supports, and (ii) first, second and third wavelength bandpass filters positioned in said first, second and third filter receiving supports respectively, said first filter support member being adjustable to position any one of said first, second and third wavelength

bandpass filters to receive said light output and to filter said light output to produce a filtered light output and transmit said filtered light output, said first filter support member being mounted for rotation and positioned, dimensioned and configured to be adjusted by a user's thumb while the user grasps said handle with his remaining fingers; and

(e) a second filter support member adjustably and movably mounted on said housing, said second filter support member comprising (i) fourth and fifth filter receiving supports, and (ii) fourth and fifth bandpass filters positioned in said fourth and fifth filter receiving supports, said second filter support member being adjustable to position any one of said fourth and fifth wavelength bandpass filters to receive said filtered light output and to filter said filtered light output to produce a twice filtered light output and transmit said twice filtered light output, said first filter passing wavelengths greater than wavelengths passed said second filter, said second filter passing wavelengths greater than wavelengths passed said third filter, said third filter passing wavelength greater than wavelengths passed said fourth filter, and said fourth filter passing wavelength greater than wavelengths passed by said fifth filter, said second filter support member being mounted for rotation and positioned, dimensioned and configured to be adjusted by the user's thumb while the user grasps said handle with his remaining fingers.

33. (new) A forensic light source comprising:

(a) a housing having at least one opening for air intake and at least one opening for air exhaust, said housing further comprising a handle configured and dimensioned to be held by less than a user's full hand;

(b) a light source mounted within said housing, said light source having an output;

(c) two filter wheels mounted in front of said light source output, said filter wheels each comprising a plurality of light filters, and at least one of said filter wheels including a section devoid of a light filter to allow light to be passed through said filter wheel without being filtered, said filter wheels being mounted for rotation and positioned,



dimensioned and configured to be adjusted by the user's thumb while the user grasps said handle with his remaining fingers;

(d) focusing optics positioned to focus light from said light source; and

(e) a reflective member, functionally coupled to said light source to direct at least a portion of said light source output toward said focusing optics.